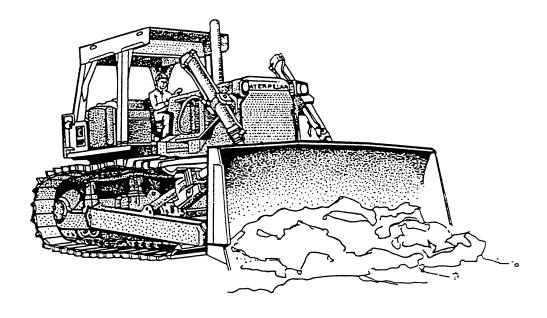
CAT D7G



SYSTEM IDE	ENTIFIERS
NOMENCLATURE:	Tractor, Fully Tracked, Low Speed, Diesel, Medium
SSN:	M06101
LIN:	W76816
NSN:	2410-01-223-7261
AMIM NO:	A443
EIC:	EBM
FUEL TYPE:	DIESEL

SYSTEM DESCRIPTION

The CAT D7G is a fully-tracked, low speed bulldozer. It is powered by a 933CT, six-cylinder diesel engine. The power shift transmission has three forward and three reverse gears. Missions include cutting tactical routes though difficult terrain, breaching tank ditches and craters, preparing strong point positions, and slot dozing tank defilade positions. The CAT D7G weighs 27 tons with the Roll Over Protection Structure (ROPS). It is transported between sites on a trailer pulled by a 10 ton tractor.

There are no separately authorized components identified with this weapon/materiel system.

CAT D7G

LIN NSN NOMENCLATURE

This summary provides an overview of FY 94 Total Army operating and support costs and other information for the weapon system. Average cost per system is displayed so the data can be used in performing analyses and cost studies. Average costs are calculated using the end item's density. NET REPARABLES represent the cost with the Major Subordinate Command (MSC) specific credit rates applied (detailed in Section 1 - Overview).

CAT D7G FY 94 TOTAL ARMY COST SUMMARY (FY 94 Constant Dollars)

456

DENSITY

NUMBER OF SYSTEMS

DEPOT END ITEM MAINTENANCE (5.061)

TOTAL \$378,793
QUANTITY COMPLETED 1
AVG COST/END ITEM \$378,793.00

CLASS III-POL (5.05)

NOT AVAILABLE

DEPOT SECONDARY ITEM MAINTENANCE

TOTAL \$0
QUANTITY COMPLETED 0
AVG COST/SECONDARY ITEM \$0.00

CLASS V-AMMUNITION (2.11)

NOT APPLICABLE

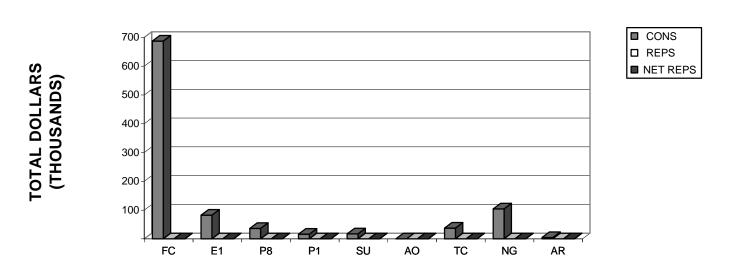
INTERMEDIATE	MAINTENANCE	
	DS/GS	CIVILIAN
MIL/CIV LABOR COST	\$13,537	\$125
AVG COST/SYSTEM	\$29.69	\$0.27
MAINTENANCE MANHOURS MMHs/SYSTEM	815 1.79	6 0.01

CLASS IX MATERIEL-PARTS (5.04/5.03)

	FY 94	AVG COST
	<u>DOLLARS</u>	PER SYSTEM
CONSUMABLES	\$986,218	\$2,162.76
NET REPARABLES	\$0	\$0.00
NET TOTAL COSTS	\$986,218	\$2,162.76

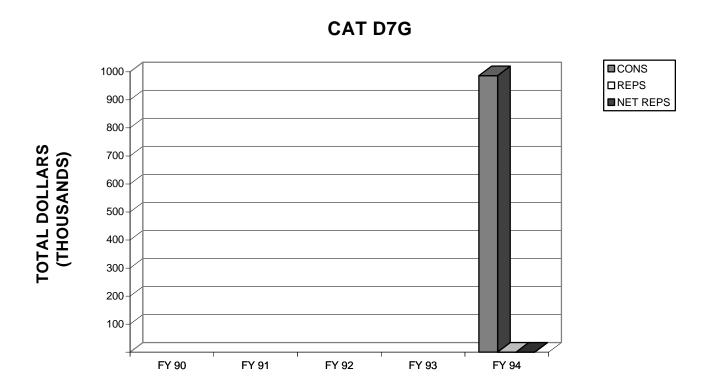
The following graph and table display FY 94 Class IX costs for consumables (CONS), reparables, (REPS), and net reparables (NET REPS) by MACOM. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. TOTAL ARMY (TA) costs are the summation of costs across all MACOMs in the table. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems for each MACOM.

CAT D7G



	CAT D7G											
	FY 94 MACOM CLASS IX COSTS											
	MACOM			NET	NET TOTAL	NUMBER OF	AVG PER					
CODE	NAME	CONS	REPS	REPS	COSTS	SYSTEMS	SYSTEM					
FC	FORSCOM	686,709	0	0	686,709	92	7,464					
E1	USAREUR	82,273	0	0	82,273	40	2,057					
P8	EUSA	36,658	0	0	36,658	9	4,073					
P1	USARPAC	16,524	0	0	16,524	8	2,066					
SU	USARSO	17,608	0	0	17,608	15	1,174					
AO	USASOC	0	0	0	0	0	0					
TC	TRADOC	37,710	0	0	37,710	34	1,109					
NG	ARNG	104,158	0	0	104,158	162	643					
AR	USAR	4,578	0	0	4,578	96	48					
TA	TOTAL ARMY	986,218	0	0	986,218	456	2,163					

The following graph and table display FY 90-94 Class IX costs for consumables (CONS), reparables (REPS) and net reparables (NET REPS) by Total Army. The Total Army costs are a summation of all the MACOMs displayed on the previous page. CONS and REPS are the total cost of requisitions recorded in the Logistic intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems in the Total Army for the fiscal year. Blank rows indicate system was not tracked in the OSMIS database during that



	CAT D7G FIVE YEAR TOTAL ARMY CLASS IX COSTS											
FISCAL			NET	NET	NUMBER OF	AVG PER						
YEAR	CONS	REPS	REPS	TOTAL COSTS	SYSTEMS	SYSTEM						
FY 90												
FY 91												
FY 92												
FY 93												
FY 94	986,218	0	0	986,218	456	2,163						

The Total Army Class IX costs from the previous pages are broken out by Work Breakdown Structure (WBS) in the following table. The FY 94 WBS Class IX costs for consumables (CONS) and reparables (REPS) are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). The NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. The TOTAL costs are a summation of all the WBS elements displayed in the table. NET TOTAL COSTS are the sum of the costs in CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS column by the total number of systems in the Army.

	CAT D7G FY 94 TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS								
				NET	NET	NUM OF	AVG PER		
WBS	NAME	CONS	REPS	REPS	TOTAL COSTS	SYSTEMS	SYSTEM		
01	HULL/FRAME	147,665	0	0	147,665	456	324		
02	SUSPENSION/STEER	61,064	0	0	61,064	456	134		
03	POWER PACKAGE	639,539	0	0	639,539	456	1,402		
04	AUX AUTOMOTIVE	9,121	0	0	9,121	456	20		
05	TURRET ASSEMBLY	0	0	0	0	0	0		
06	FIRE CONTROL	0	0	0	0	0	0		
07	ARMAMENT	0	0	0	0	0	0		
80	BODY/CAB	0	0	0	0	0	0		
09	AUTO LOADING	0	0	0	0	0	0		
10	AUTO/REMOTE PILOT	0	0	0	0	0	0		
11	NBC EQUIPMENT	0	0	0	0	0	0		
12	SPECIAL EQUIPMENT	33,499	0	0	33,499	456	73		
13	NAVIGATION	0	0	0	0	0	0		
14	COMMUNICATIONS	0	0	0	0	0	0		
15	VEH APP SOFTWARE	0	0	0	0	0	0		
16	VEH SYS SOFTWARE	0	0	0	0	0	0		
17	INT, ASSY, TEST, C/O	0	0	0	0	0	0		
18	OTHER	95,330	0	0	95,330	456	209		
	TOTAL	986,218	0	0	986,218	456	2,163		

The following table displays FY 90-94 Class IX costs by Work Breakdown Structure (WBS) for the Total Army. NET TOTAL COSTS are summation for all the WBS elements displayed on the previous page and are a sum of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army for the fiscal year. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

	CAT D7G FIVE YEAR TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS								
		FY 90	FY 91	FY 92	FY 93	FY 94			
		NET TOTAL							
WBS	NAME	COSTS	COSTS	COSTS	COSTS	COSTS			
01	HULL/FRAME					147,665			
02	SUSPENSION/STEER					61,064			
03	POWER PACK					639,539			
04	AUX AUTOMOTIVE					9,121			
05	TURRET ASSEMBLY					0			
06	FIRE CONTROL					0			
07	ARMAMENT					0			
80	BODY/CAB					0			
09	AUTO LOADING					0			
10	AUTO/REMOTE PILOT					0			
11	NBC EQUIPMENT					0			
12	SPECIAL EQUIPMENT					33,499			
13	NAVIGATION					0			
14	COMMUNICATIONS					0			
15	VEH APP SOFTWARE					0			
16	VEH SYS SOFTWARE					0			
17	INT, ASSY, TEST, C/O					0			
18	OTHER					95,330			
	TOTAL					986,218			
	NUM OF SYSTEMS					456			
	AVG PER SYSTEM					2,163			

CAT D7G TOP 40 COST DRIVERS CLASS IX CONSUMABLES (NON-DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE	FY 94 QTY
1.	2520011614941	TRANSMISSION,HYDRAU	03H	Н		K21IA	23,134.00	13.07
2.	2815012419193	ENGINE, DIESEL	03A	Н		K21IA	14,123.00	8.00
3.	6140001909828	BATTERY, STORAGE	18	Z		Q2200	106.04	368.06
4.	2530011641850	LINK,TRACK SHOE,CON	02B	F		J2100	3,446.24	11.21
5.	4010012747309	WIRE ROPE ASSEMBLY,	18	Z		J2200	776.48	41.40
6.	2530004010301	ROLLER AND SHAFT AS	03Q	F		J2100	407.06	67.28
7.	2530010794110	ROLLER ASSEMBLY,TRA	03Q	Z		J2200	424.07	37.70
8.	2920004255932	STARTER,ENGINE,ELEC	03A	F		J2100	1,055.22	15.13
9.	3830012099720	END BIT,MOLDBOARD	12E	Z		J2200	108.79	118.38
10.	2530003511975	TRACK SHOE, VEHICULA	02B	Z		J2200	31.50	385.01
11.	3930011637338	CYLINDER ASSEMBLY,A	01A	F		J2100	2,408.02	5.00
12.	3040012670625	CONNECTING LINK, RIG	03K	Z		J2200	901.73	12.55
13.	3930011637339	CYLINDER ASSEMBLY,A	01A	F		J2100	4,657.19	2.30
14.	3040012672092	CYLINDER ASSEMBLY,A	03K	F		J2100	2,069.29	4.66
15.	3830001279413	END BIT,MOLDBOARD	12E	Z		J2200	84.35	108.77
16.	2530013146415	TRACK SHOE ASSEMBLY	02B	F		J2200	4,678.90	1.71
17.	3930011637337	CYLINDER ASSEMBLY,A	01A	F		J2100	2,408.02	3.25
18.	2530009185451	BOGIE WHEEL,TRACKED	03Q	Z		J2200	276.99	27.55
19.	2990010424776	PIPE,EXHAUST	03F	Z		J2200	103.32	65.15
20.	2940002441319	FILTER ELEMENT,INTA	03A	В		J2200	21.57	306.78
21.	2910012545005	TANK,FUEL,ENGINE	03A	F		J2100	3,156.04	2.00
22.	2930011756489	RADIATOR, ENGINE COO	03G	Z		J2200	176.34	35.60
23.	5306012708494	BOLT,EYE	01A	Z		T2200	423.42	14.63
24.	3030001093857	BELTS,V,MATCHED SET	03H	Z		J2200	48.73	111.85
	4320011633546	PUMP,ROTARY	18	F		J2100	1,050.12	5.11
26.	2990004171356	MUFFLER,EXHAUST	03F	Z		J2200	133.32	39.90
27.	2540012537477	CUSHION,SEAT BACK,V	01H	Z		J2200	83.89	61.03
	2530009507009	RETAINER, CYLINDER S	03Q	Z		J2200	493.49	10.31
29.	2990011655977	TURBOCHARGER ASSEMB	03A	Z		J2200	960.41	5.04
30.	5340012373387	COVER,ACCESS	01A	Z		T2200	725.27	6.67
31.	2540012549937	CUSHION,SEAT,VEHICU	01H	Z		J2200	88.54	53.09
	2520001475081	TORQUE CONVERTER	03L	Н		K21IA	2,679.00	1.69
33.	2540012545034	SEAT, VEHICULAR	01H	F		J2100	369.81	11.51
34.	3830003414384	CUTTING EDGE, MOLDBO	12E	Z		J2200	65.66	63.28
35.	3830003414386	CUTTING EDGE, MOLDBO	12E	Z		J2200	89.14	42.24
36.	2530012141578	PUMP ASSEMBLY,POWER	03Q	F		J2100	1,285.22	2.84
37.	6115011847432	GENERATOR,ALTERNATI	18	F		J2100	914.93	3.71
38.	2940010755024	FILTER ELEMENT,FLUI	03A	Z		J2200	14.22	232.19
	6220009534652	FLOODLIGHT,ELECTRIC	01A	Z		J2200	60.31	51.32
40.	5340012740865	COVER,ACCESS	01A	Z		T2200	91.21	32.94

NUMBER OF SYSTEMS 456

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

CAT D7G CONSUMABLES (NON-DLRs)

					FY 90-94
EVENIDED COOT	AVERAGE COS	SI A	/ERAGE QUANTITY	<u></u>	VE YEAR AVERAGE
EXTENDED COST	PER		PER		
(QTY * UNIT PRICE)	SYSTEM		100 SYSTEMS	QTY	EXTENDED COST
302,361	663.07		2.8662		
*					
112,984	247.77		1.7544		
39,028	85.59		80.7149		
38,633	84.72		2.4583		
32,146	70.50		9.0789		
27,387	60.06		14.7544		
15,988	35.06		8.2675		
15,966	35.01		3.3180		
12,879	28.24		25.9605		
12,130	26.60		84.4320		
12,040	26.40		1.0965		
11,317	24.82		2.7522		
10,712	23.49		0.5044		
9,643	21.15		1.0219		
9,175	20.12		23.8531		
8,001	17.55		0.3750		
7,826	17.16		0.7127		
7,632	16.74		6.0417		
6,731	14.76		14.2873		
6,617	14.51		67.2763		
6,312	13.84		0.4386		
6,278	13.77		7.8070		
6,194	13.58		3.2083		
5,450	11.95		24.5285		
5,366	11.77		1.1206		
5,318	11.66		8.7500		
5,120	11.23		13.3838		
5,088	11.16		2.2610		
4,840	10.61		1.1053		
4,837	10.61		1.4627		
4,701	10.31		11.6425		
4,528	9.93		0.3706		
4,257	9.34		2.5241		
4,155	9.11		13.8772		
3,766	8.26		9.2632		
3,650	8.00		0.6228		
3,394	7.44		0.8136		
3,301	7.24		50.9189		
3,096	6.79		11.2544		
3,005	6.59		7.2237		
791,852	80.3%	TOP 40			
194,366	19.7%	OTHERS			
986,218					

CAT D7G COST DRIVERS CLASS IX REPARABLES (DLRs)

						FY 94 AMDF	FY 94 AMDF UNIT PRICE		
NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	W/O CREDIT	W/CREDIT	QTY	

NO DATA

CAT D7G REPARABLES (DLRs)

	AVERAGE COST			FY 90-94
EXTENDED COST	(W/CREDIT)	AVERAGE QUANTITY	FIVE Y	EAR AVERAGE
(W/CREDIT)	PER	PER		EXTENDED COST
(QTY * UNIT PRICE)	SYSTEM	100 SYSTEMS	QTY_	(W/CREDIT)

NO DATA

The following table summarizes FY 94 Depot Maintenance Costs from the Master File Maintenance (MFM). Depot maintenance costs are displayed by cost elements for end item maintenance and secondary item maintenance. The OTHER cost columns represent work categories such as progressive maintenance, renovation, and fabrication/manufacture. For reporting purposes, TRANSPORTATION costs recorded in the World Aircraft Logistics Conference (WALC)/Special Aircraft Assignment Mission (SAAM) records are shown in the OTHER maintenance category.

CAT D7G FY 94 DEPOT MAINTENANCE COSTS												
COST		END I	TEM			SECONDARY	' ITEM					
ELEMENTS		MAINTEN	NANCE			MAINTENA	NCE					
	REPAIR	OVERHAUL	OTHER	MODIFICATION	REPAIR	OVERHAUL	OTHER					
CIVILIAN LABOR	0	0	87,453	0	0	0		0				
MILITARY LABOR	0	0	0	0	0	0		0				
MATERIEL	0	0	8,105	0	0	0		0				
TRANSPORTATION	0	0	0	0								
OVERHEAD	0	0	282,490	0	0	0		0				
CONTRACT	0	0	0	0	0	0		0				
OTHER	0	0	745	0	0	0		0				
TOTAL	0	0	378,793	0	0	0	-	0				
QTY COMPLETED	0	0	1	0	0	0		0				
AVG COST	0	0	378,793	0	0	0		0				

The table below summarizes FY 94 Intermediate Maintenance Costs from the Work Order Logistics File (WOLF) data. The labor hours and labor costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS LABOR COSTS are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate (\$16.61). CIVILIAN LABOR COSTS are a summation from the source data.

CAT D7G								
FY 94 INTERMEDIATE MAINTENANCE COSTS								
	DS/GS LABOR	DS/GS	CIVILIAN	CIVILIAN	CIVILIAN LABOR			
MACOM	HOURS	LABOR COSTS	LABOR HOURS*	LABOR COSTS [*]	COST/HOUR			
FORSCOM	316	5,249	0	0	0.00			
USAREUR	264	4,385						
EUSA	3	50						
USARPAC	32	532						
USARSO	29	482						
USASOC	0	0						
TRADOC	0	0	6	125	20.83			
ARNG	129	2,143						
USAR	42	698	_					
TOTAL ARMY	815	13,537	6	125	20.83			

^{*}TRADOC LABOR HOURS and LABOR COSTS include contractor hours and costs.

The following table summarizes FY 90-94 Depot Maintenance Costs. The depot maintenance data are recorded in MFM. FY 94 costs are a summation of the cost elements displayed on the previous page. END ITEM OVERHEAD costs were not separately identified prior to FY 92. TRANSPORTATION costs are recorded in the WALC/SAAM records. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

CAT D7G FIVE YEAR DEPOT MAINTENANCE COSTS										
COST ELEMENTS	END ITEM MAINTENANCE					SECONDARY ITEM MAINTENANCE				
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
CIVILIAN LABOR					87,453					0
MILITARY LABOR					0					0
MATERIEL					8,105					0
TRANSPORTATION					0					0
OVERHEAD					282,490					0
CONTRACT					0					0
OTHER					745					0
TOTAL					378,793					0
QTY COMPLETED					1					0
AVG COST					378,793					0

The table below sumarizes FY 90-94 Intermediate Maintenance Costs from WOLF. The fiscal year total costs for Direct/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS labor costs are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate. DS/GS COST PER HR is the E-5 composite standard rate in FY 94 constant dollars. CIVILIAN LABOR COSTS are a summation from the source data. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

CAT D7G FIVE YEAR INTERMEDIATE MAINTENANCE COSTS										
		DIRECT/0	GENERAL S	SUPPORT				CIVILIAN		
	INT	ERMEDIAT	E MAINTEN	IANCE (DS	/GS)		MAIN	NTENANCE	(CIV)	
MACOM	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
FORSCOM					5,249					0
USAREUR					4,385					
EUSA					50					
USARPAC					532					
USARSO					482					
USASOC					0					
TRADOC					0					125
ARNG					2,143					
USAR					698					
TOTAL ARMY					13,537					125
LABOR HRS					815					6
COST PER HR					16.61					20.83

The following list shows the FY 94 Secondary Item - Rebuilds/Overhauls Cost Drivers recorded in the MFM. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 94 TOTAL COST TO REBUILD/OVERHAUL by FY 94 QTY COMPLETED.

CAT D7G FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS								
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REBUILD/ OVERHAUL	FY 94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL			
		O DATA AVAI			6,5,4,5,6			

The following list shows the FY 94 Secondary Item Maintenance - Repairs Cost Drivers recorded in MFM. AVG COST TO REPAIR is calculated by dividing the costs in FY 94 TOTAL COST TO REPAIR by FY 94 QTY COMPLETED.

CAT D7G FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS							
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REPAIR	FY 94 QTY COMPLETED	AVG COST TO REPAIR		
	N	O DATA AVAI	LABLE				

The following list shows the FY 90-94 Secondary Item - Rebuild/Overhauls Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 13 for further explanation. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 90-94 TOTAL COST TO REBUILD/OVERHAUL by FY 90-94 QTY COMPLETED.

CAT D7G FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS								
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REBUILD/ OVERHAUL	FY 90-94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL			
	N	O DATA AVA	ILABLE					

The following list shows the FY 90-94 Secondary Item - Repairs Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 13 for further explanation. AVG COST TO REPAIR is calculated by dividing the costs in FY 90-94 TOTAL COST TO REPAIR by FY 90-94 QTY COMPLETED.

CAT D7G FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS							
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REPAIR	FY 90-94 QTY COMPLETED	AVG COST TO REPAIR		
	N	O DATA AVAI	LABLE				

CHOOSE A VOLUME FOR MORE SYSTEMS



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